			KU
	Application No.	Applicant(s)	
	10/717,955	VU, HA C.	
Notice of Allowability	Examiner	Art Unit	
• 	Hai L. Nguyen	2816	
The MAILING DATE of this communication appeals claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is and MPEP 1308.	n this application. If not included nunication will be mailed in due course	
1. A This communication is responsive to the amendment filed	<u>on 02/22/05</u> .		
2. \boxtimes The allowed claim(s) is/are <u>1-4,6-15 and 17-20</u> .			
3. $igotimes$ The drawings filed on <u>20 November 2003</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date (b) Including such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the priority of the deposit of the priority of the priority of the deposit of the priority documents and the deposit of the priority documents and the priority documents are claimed.	e been received. e been received in Application cuments have been received of this communication to file. of this communication to file. MENT of this application. whitted. Note the attached EX es reason(s) why the oath of the submitted. son's Patent Drawing Reviews Amendment / Comment of the header according to 37 Consit of BIOLOGICAL MAT	on No ed in this national stage application from this national stage application from the areply complying with the requirement. AMINER'S AMENDMENT or NOTICE or declaration is deficient. W (PTO-948) attached or in the Office action of the drawings in the front (not the back) FR 1.121(d). ERIAL must be submitted. Note the	ents E OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 08), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), John John John John John John John John	

DETAILED ACTION

Response to Amendment

1. The amendment received on 02/22/2005 has been received and entered in the case. The prior art rejections to the claims made in the previous Office Action mailed on 12/01/2004 are now withdrawn in view of Applicant's amendments. The case is found to be in allowance condition.

REASON FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest a circuit (300 in instant Fig.3) for dividing periodic input pulses (clkin) by a preset integer M (PLLDIV)), and a method of use thereof, as recited in claims 1 and 10, comprising a dual modulus prescaler; a swallow counter (330); a program counter (320); and specifically the limitation directed to the dual modulus prescaler (310) arranged to receive periodic input pulses and to count the received input pulses for generating prescaled pulses, wherein one prescaled pulse is generated for every Qth input pulse, wherein Q is a division modulus having a value depending on a value of a modulus control signal, wherein when a prescaled pulse is generated from a selected input pulse, the modulus control signal is ignored at least until after the onset of a next input pulse is received. Note that as shown in present application (FIG. 9), a period of time, CPD9 962, occurs from the Mth pulse of signal clkin (faster) to the falling edge of modulus control signal DIV4, where M=(P*N+S). As shown in the figure, time CPD9 962 is sufficiently large that the next pulse ((M+1)th pulse) of signal clkin (faster) occurs prior to the falling edge of modulus control signal DIV4.

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However, the prescaler ignores modulus control signal DIV4 at the onset of the $(M+1)^{th}$ pulse of signal clkin (faster) (see page 8, lines 27-30 of the specification). Accordingly, in this embodiment, the fact that time CPD9 962 has not elapsed by the onset of the $(M+1)^{th}$ pulse is irrelevant. Because the modulus control signal is ignored by the prescaler until after the onset of the next pulse after the M^{th} pulse (where the M^{th} pulse is the $(P^*N+S)^{th}$ pulse), the period of input signal clkin may be less than period of time CPD9 962 (which is the period of time from the $(P^*N+S)^{th}$ pulse of input signal clkin to the falling edge of modulus control signal DIV4).

Claim 9 similarly allowed; note the above discussion with regard to claims 1 and 10.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number for the organization where this application or proceeding is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HLN 7/1005 May 1, 2005